

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Stephen Walder (Reg. No. 41,534) on 11/02/2008.

3. Amend the following claims:

1. (Currently Amended) A method implemented by at least one computer, wherein the at least one computer performs steps of the method comprising:

executing a first ~~the~~ mobile agent object in a first mobile-agent runtime environment in a first host computing environment, the first mobile agent object operable to execute in a first electronic device, halt execution in the first electronic device at an execution state, be transplanted to a second electronic device, and resume execution from the execution state in the second electronic device; ~~and~~

configuring the first mobile agent object to install a service object executable in the first mobile-agent runtime environment, wherein the first mobile agent object enables the use of an API associated with the first host computing environment; and

generating in the first host computing environment a second mobile-agent object operable to navigate to a second host computing environment, discover available services

associated with the second host computing environment, and provide to the first host computing environment information associated with the available services.

2. (Currently Amended) A method implemented by at least one computer, wherein the at least one computer performs steps of the method, comprising:

accessing, with a first host computing environment, a second host computing environment having a mobile-agent runtime environment; ~~and~~

generating in the first host computing environment a first mobile-agent object operable to navigate to the second host computing environment and install a service object executable in the mobile-agent runtime environment and that may be called by any process or subsequent mobile-agent object that is executing in the mobile-agent runtime environment, the mobile agent object operable to execute in a first electronic device, halt execution in the first host computing environment at an execution state, be transplanted to a second host computing environment, and resume execution from the execution state in the second host computing environment, wherein the first mobile agent enables the use of an API associated with the second host computing environment;

generating in the first host computing environment a second mobile-agent object operable to navigate to the second host computing environment, discover available services associated with the mobile-agent runtime environment, and provide to the first host computing environment information associated with the available services.

3. (Previously Presented) The method of claim 2 wherein the first mobile-agent object is further operable to discover available services associated with the mobile-agent runtime environment.

4. Canceled

5. (Previously Presented) The method of claim 2 wherein the first mobile-agent object includes the service object.

6. (Previously Presented) The method of claim 2 wherein the first mobile-agent object includes at least one service module operable to realize a function of the service object.

7. (Currently Amended) A computer-readable storage medium having stored thereon a data structure, comprising:

a first instruction set that when executed by a computing device causes the data structure to navigate from a first host computing environment to a second host computing environment having a mobile-agent runtime environment; ~~and~~

a second instruction set that when executed by the computing device causes the installation of a service object executable in the mobile-agent runtime environment and that may be called by any process or subsequent mobile-agent object that is executing in the mobile-agent runtime environment;

a third instruction set that when executed by the computing device causes discovery of available services associated with the mobile-agent runtime environment,

and provision to the first host computing environment information associated with available services; and

a fourth instruction set that when executed enables the use of an API associated with the second host computing environment.

8. (Previously Presented) The medium of claim 7 wherein the data structure further comprises at least one service module operable to realize a function of the service object and executable in the mobile-agent runtime environment.

9. (Previously Presented) The medium of claim 8 wherein the second instruction set, when executed, further causes the installation of the at least one service module in the mobile-agent runtime environment.

10. (Previously Presented) The medium of claim 7 wherein the data structure further comprises the service object.

11. (Previously Presented) The medium of claim 7 wherein the data structure further comprises a runtime-data set associated with the service object.

12. Canceled.

13. (Previously Presented) A computer-readable storage medium having stored thereon instructions that when executed by a computing device perform the method of claim 2.

14. Canceled.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (571) 272-3767. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).

/Meng-Ai An/
Supervisory Patent Examiner, Art Unit 2195

LeChi Truong
December 9, 2008
